

FOLIO

UNIVERSITY OF ALBERTA
22 APRIL 1994



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Industrial sector, science professors breaking down cultural barriers

Faculty of Science forum on industry-university interactions pronounced successful

By Michael Robb

A consortium funded by industry, government and the University of Alberta should be established to fund industrial training, says a Biomira Inc spokesperson.

Companies like Biomira depend on universities to discover, invent and explore the unknown, but they also depend on universities to educate their potential employees, says company Vice-President Tony Noujaim.

Right now, the University of Alberta is not doing as good a job as it could in training potential employees, Dr Noujaim told the Faculty of Science's industry-university interactions program last Friday. The company is often forced to hire its employees from the United States.

"I hope we can solve this problem," Dr Noujaim said, pointing out that universities also have to prepare students who are aware of how quickly the market changes.

"There are so many good ideas out there, but they may be only good for three weeks."

Addressing a group of prominent University researchers, senior officials from Edmonton's high-tech companies and provincial and federal government officials, TRILabs President Glenn Rainbird said many of its sponsors "gobble up our students because they're doing industrially relevant work." Eighty per-

cent of the research supported by TRILabs, a research and development consortium established in western Canada, is applied, he explained, and that's what keeps its sponsors engaged.

Gerry Tertzakian, executive vice-president of Raylo Chemicals, said coop students have proven to be an excellent resource to industry. But there needs to be more joint graduate programs, in which students would work in industrial settings. "That would allow for a better intermingling of ideas ... and students would be better prepared for the job market."

Professors also have to spend time in the industrial world, Dr Tertzakian said, citing a California example whereby professors would routinely spend sabbaticals with IBM.

On the differences between the academic and industrial cultures—a topic raised repeatedly throughout the day-long forum—Dr Tertzakian said university researchers have to understand industry's need to make a profit and the importance of confidentiality. On the other hand, the industrial world has to understand the university's role which is to do undirected research, educate students, and publish, all under the stresses related to funding and tenure.

Chemistry Professor Norm Dovichi said the importance of good communications between the university researcher and industry cannot be understated. "You need someone [within the company] who's championing the work."

Products that have champions succeed, those that don't flounder, responded Dr Tertzakian.

Leo Derikx, director general (Targeted Research), Natural Sciences and Engineering Research Council, had some advice for industry. Think longterm, be selective, educate the professoriate, be actively involved in the re-

search programs, and respect the university's mission. "It's not the university's job to become an appendix to industry. Universities have an enormous educating role to play."

As well as addresses by key university, government and industrial spokespersons, the forum included workshops on intellectual property, research consortia, industry needs and university needs.

The idea for the forum came from a number of sources, said Dean of Science Dick Peter. People on the Faculty's visiting committee and people in the industrial world thought it would be a good idea and a means of lowering the cultural barriers, the Dean explained.

Building those bridges will enhance research overall at the U of A, and provide more opportunities for undergraduate and graduate students, he said.

VP (Research) says partnering will be the key to U of A successes

By Michael Robb

The University of Alberta expects to maintain and increase its share of government-sponsored research money, but over the next several years the University wants to increase its share of industry-sponsored research money.

That will be the real growth area, Vice-President (Research) Martha Piper said last Friday at the Faculty of Science's forum on industry-university interactions.

Addressing a group of prominent university researchers, senior industrial representatives from a number of Edmonton-based high-tech companies, and federal and provincial government representatives, Vice-President Piper said research-intensive universities across the continent are increasingly relying on "partnering" with the industrial and government sectors.

"Canadian universities are now seen as major engines of economic development," she said. The knowledge-based, globally competitive economy will depend on the commercialization of new technologies. Universities will play two primary roles in this process: developing technologies and producing graduates who have the know-how to be able to use those technologies.

Dr Piper said she was hopeful that over the next five years, 15 new knowledge-based companies would be created in Edmonton as a result of work carried out at the University. The University can't do it alone, she said. "We need the help of the industrial and business community."

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Thousands of reserved seats. A store of energy to be portioned out over a set period of time. Concentrated mental and physical effort. No, it's not the Stanley Cup playoffs but rather exam period at the University of Alberta. Timetabling reports that the 1,680 centrally scheduled exams (15 to 28 April) require the reservation of 76,771 seats (called exam stations). The 76,771 exams to be marked will rise substantially because Timetabling doesn't schedule exams for Medicine, Dentistry or Law, nor for evening or off-campus classes, for example, Faculté Saint-Jean. Folio extends best wishes to all exam writers and to markers such as Psychology's Don Heth, shown here.

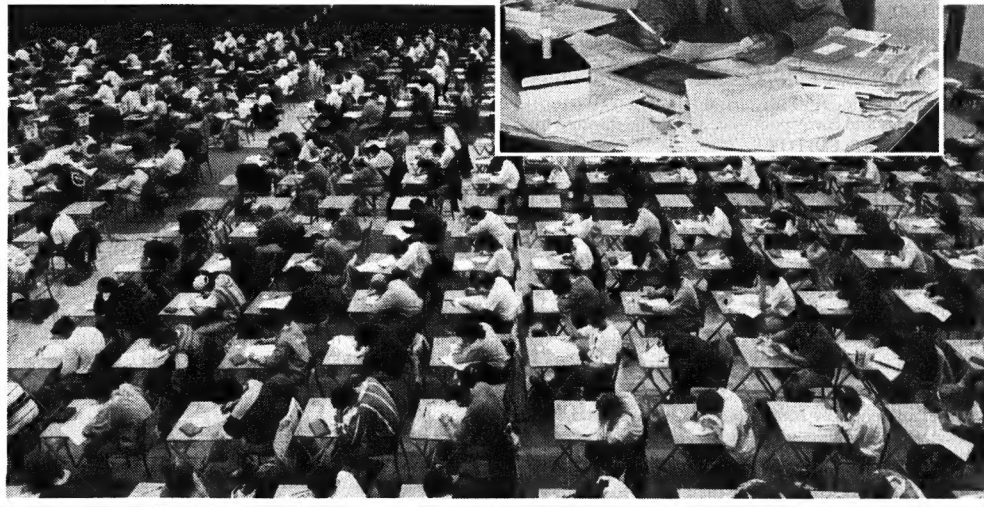


Photo Services

Draft white paper criticized by many GFC members

Growing consensus on campus that proposal to charge international students full fees is wrong

By Michael Robb

You won't find much support around this campus for the provincial government's proposal to charge international students full fees.

That proposal, and a number of others outlined in the recently released draft white paper, came under attack at General Faculties Council, 11 April.

Murray Gray, Dean of Graduate Studies and Research, suggested that charging the higher fees and simply rebating them would be administratively expensive and involve all sorts of bureaucracy. "You can give on the one hand and take away on the other, even if you have to do a lot of bean counting in between."

President Paul Davenport said, "We would simply send the wrong signal, if we raise our fees to \$15,000 and then put in the fine print that we'll give it all back to you. Moreover, I'm very concerned that raising those fees [for international students] could be seen outside the University as additional income for the University's general budget, which would justify further cuts, and then leave us in the situation where we wouldn't have the funds to do the rebates."

The President, who recently returned from a trip to Hong Kong and Japan, said full cost tuition for international students does not recognize international students' contribution to the University, Alberta and Canada.

"People I met who are graduates of Canadian universities are wonderful ambassadors. I'm sure whatever subsidy they receive in their degree-granting programs on average is paid back many times."

On recruitment, Sociology Professor Derek Sayer said, "Our ability to attract and retain high quality faculty is to a considerable extent going to be affected by what kind of research environment we can offer. There seems to be no recognition of that whatsoever on the other side of the river."

The draft white paper follows on the heels of a consultative process which took place last year. From that, the provincial government formulated a number of proposals it believes

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First proposals from *Quality First* passed by General Faculties Council

Biological Sciences, Mathematics proposals originated at the Faculty level

By Michael Robb

Two proposals contained in the Quality First restructuring document have been approved by General Faculties Council.

At its regular meeting 11 April, GFC approved the merger of the Departments of Botany, Genetics, Microbiology and Zoology into a single Biological Sciences Department. A related motion to merge the Department of Entomology with the Zoology Department was also approved.

GFC also gave its approval to the merger of the Departments of Mathematics and Statistics and Applied Probability. The new department will be called the Department of Mathematical Sciences.

The two mergers are estimated to save the Faculty about \$115,840 annually, the bulk of which will come from savings on Administrative Professional Officer salaries.

Dean of Science Dick Peter said there is a lot of planning going on now on how the new Biological Sciences Department will work. "It's very exciting in terms of the programs for undergraduates. There will be some increased flexibility. There will be common first year ... and then students will enter various streams.

"In the graduate program areas, there will be a recasting of the program. There will be new opportunities for graduate students, in terms of accessibility to facilities and faculty members. Overall, it's a very positive merger. We'll be stronger as a result of it."

Agriculture, Forestry and Home Economics Dean Ed Tyrchniewicz said the biological sciences merger has a lot of academic validity. "I suppose the fact that it is a rather large transfer of resources from my Faculty to the

Faculty of Science hasn't exactly received resounding support in my Faculty."

Dr Peter responded that the University is compelled to look across its boundaries, between Faculties and departments, when restructuring takes place.

Oral Biology Professor Jeffrey Osborn wondered whether the restructuring would have an effect on the number of people who would apply to specific areas, for example, genetics.

Dean Peter said that over time disciplinary boundaries have been redrawn in the biological sciences. The classical boundaries

no longer exist, and, in part, that's why the department has been created.

Looking at the mathematics merger, Vice-President (Academic) John McDonald said, "This is one which Professor Osborn could note that the split happened fairly recently. But we are in different times. That's one of the issues. And secondly, I think it's fair to say that split was never quite as successful as it was hoped at the time."

Dean Peter said the newly integrated mathematics department will offer programs undergraduate and graduate students will benefit from. There will also be greater cooperation at the research level.

Students for Literacy helping the public

Frontier College: Students for Literacy is a student-run, community-based service which pairs University of Alberta students with members of the public who have problems reading and writing.

Formed by a small number of students last November, Frontier College now has upwards of 50 members, not all of whom are students.

The organization is run entirely by volunteers. There is no cost to the learner (literacy student) and the resource materials are free of charge.

"We wish to promote a learning partnership between the learner and the tutor," says Carolyn Carlson. "Our program is student-

centred; the style and method of teaching caters to the literacy student's needs."

A support committee of interested faculty and community members has been established. The next step, Carlson says, is to set up workshops, for example, on learning disabilities, clear language, ESL, and social issues surrounding literacy, that will benefit the tutors.

Frontier College: Students for Literacy invites any interested faculty members to forward their questions, input and/or suggestions to: Box 100, Students' Union Building, or call Susan Spronk, at 459-3147 or 458-2843 during the summer.

CCI's *Wolves, Bison* finalist in provincial competition

One of the Canadian Circumpolar Institute's bestsellers has been nominated as one of the finalists in the Annual Alberta Book Industry Awards.

Wolves, Bison...and the Dynamics Related to the Peace-Athabasca Delta in Canada's Wood Buffalo National Park is nominated in the category of Alberta Scholarly Title of the Year.

The book focuses on the wolf/bison predator-prey system in the delta region. The book is one of two that CCI published about northern Alberta last year.

The award winners will be chosen early next month.

Two-day course focuses on pulp and paper technology

By Folio staff

The Pulp and Paper Institute of Canada is sponsoring a short course called, "Introduction to Pulp and Paper Technology," 29 and 30 April.

It's really an awareness course, says Chemical Engineering Professor Jacob Masliyah. "It's designed to make students a little more aware of the industry."

The course, taught by Dick Kerekes and Chad Bennington of the University of British Columbia's Pulp and Paper Centre, will include an overview of the forest industry and pulp and paper technology. Other topics are: fibre properties, mechanical pulping, chemical pulping, pulp bleaching, chemical recovery, environment, papermaking and paper products.

The course is designed for third-year and graduating engineering and science students. Faculty and graduate students are also invited to attend. There is no charge for the course and free notes will be provided.

The course will be held in 342 Chemical-Engineering Building. Anyone interested in the course can call Dr Masliyah at 492-4673.

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Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements.

Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0436 for sizes, rates and other particulars.

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BRIEFS

Likely three alternatives on Dentistry's future

In all likelihood, General Faculties Council will have three proposals to consider regarding the Faculty of Dentistry, President Paul Davenport told GFC members at their regular meeting 11 April.

The Faculty and the Alberta Dental Association are each working on alternative proposals to those put forward in the University's restructuring document, *Quality First*.

The document proposes that the Faculty be closed after the year 1997-98 and that the University work with the provincial government to develop the means to provide trained dentists and dental hygienists for the province.

The proposals were to have been debated two days ago at the Academic Development Committee.

Is the U of A getting its message out?

Comments about the value of some University subjects made by a delegate at the recent Tory convention aren't terribly important, but they are symptomatic of a certain mentality, says Faculté Saint-Jean Professor Frank McMahon.

Dr McMahon said, "I don't think, for whatever reason, the University has done enough to tell the public about the implications of budget cuts. I'm convinced that 85 percent of the public doesn't realize that we have been cut back in terms of real dollars for 10 years." He suggested the University has to invest time and money in an effort to get its issues out into the public realm.

President Davenport said the effort to get the word out is worth it. Maybe it is true that 85 percent of the public doesn't know the University's grant has gone down for the last 10 years, "but it's despite our best efforts," he said. "It's one thing to make the case, but it's another thing for the government to change policy."

CURRENTS

Cormack, 2-102 Rutherford North, telephone 492-1411.

Forestry research events

As part of University Forestry Research Symposium, a poster session will be held 25 April from 1 to 5 pm in the foyer of Myer Horowitz Theatre. Also that day, a graduate student research symposium will be held from noon to 2:30 in 1-13 Agriculture Forestry Centre.

Poetry reading by Desmond Egan

Celebrated Irish poet Desmond Egan will give a reading on 28 April in Myer Horowitz Theatre. The event, which begins at 7 pm, is

sponsored by the Irish Cultural and Sporting Society (Edmonton) and the Department of English. Admission is \$10. Call 453-2249 for further information.

National defence meeting

The Biological and Chemical Defence Review Committee, which reports to the Minister of National Defence on matters of concern relating to the biological and chemical defence capabilities of the Canadian Armed Forces, invites representatives of interested groups to meet with the committee between 2:30 and 3:30 pm, Sunday, 8 May, in Calgary. For further information, call Dr R Marusyk, BCDRC member, at 492-8903, before 30 April.

June Butt: helping to keep the books balanced

By Janet Resta

June Butt experiences the stress and pressure of the current financial climate from a singular perspective.

For the past 23 years, she has served as Executive Secretary to the Vice-President (Finance and Administration). While four different VPs and four different administrative styles have passed through the office, June's approach to the job has remained constant. Since the position of VP is geared to the individual holding it, her job requires a careful balance of providing continuity and information while quickly adapting to the style of each new VP.

The administrative support staff must also adapt to the trickle-down effect of changes in the President's office. June jokes that with the arrival of Glenn Harris to the

office, this is the first time she has further had to adapt to working for a younger man.

In addition to being flexible, the Edmonton native points out that the team she works with must be highly self-sufficient and self-reliant. The administrators they serve are frequently away in meetings for the full day. With the advent of computers and e-mail, and the loss of a common lunchroom, that sense of self-reliance has almost extended to a feeling of isolation. Where the staff once worked closely together and socialized during breaks, they now find themselves having to appoint someone to organize a yearly luncheon.

Regardless of the current stress level on campus and certainly in her office, June is happy in her position. She points to the good

team of long-term employees and the string of good bosses she has been fortunate to be associated with.

To relax from the pressures of work, June enjoys reading mystery novels, walking, and travelling with her husband to fly-fishing conferences where he frequently gives demonstrations. However, her principal hobby is one that is strangely appropriate to her position. June loves to spend hours



June Butt is part of a team that's self-sufficient and self-reliant.

combing the malls, looking for new items and ideas and hunting for the perfect bargain.

Boissonnault receives SU's Award for Excellence

Gold Keys awarded to Davenport, Mactaggart

By Folio staff

Former Students' Union President and Rhodes scholar Randy Boissonnault received the prestigious Students' Union Award for Excellence last week at the SU's Involvement and Gold Key Awards Night.

Chancellor Sandy Mactaggart and President Paul Davenport were also awarded Honourary Gold Keys at the function.

Others to receive 1993-94 Gold Keys were: Carolyn Anderson, James Barabash, Chantelle Carley, Piali Das Gupta, Christopher Floden, Jason Frank, Kelly Goebel, Danya Handelsman, Bindi Karia, Femida Kherani,

Kevin Kimmis, Marilyn King, Lori Magistad, Kara Nerenberg, Michel Ouellette, Fred Sannemann, Tiffany Tsang and Anurag Varma.

The Students' Union 1993-94 involvement award recipients were: Karen Press; Michael Londry, Hooper Monroe Academic Award; Keltie Duggan; David Stewart, Randy Gregg Athletic Award; Bonnie Commandeur; Cory Sutela, Maimie S Simpson Book Prize; Danya Handelsman; Scott Reeves, Hilda Wilson Volunteer Award; Kara Nerenberg; James Barabash, Eugene L Brody Award; Sara

Binder; Raheem Kherani, Walter A Dinwoodie Award; Kory McDonald; Michael Curry, Lorne Calhoun Memorial Award; Femida Kherani; Tony Spagnolo, Tevie Miller Involvement Award; Jolanda Slagmolen; Joseph Ferenbok, Tom Lancaster Award; Rhonda Victor; Gordon Brost, Dean Mortensen Award; Catherine Sewell; and Anurag Varma, Anne Louise Mundell Humanitarian Award.

Gold Key awards are given to people who make outstanding contributions to the University community.

Specialist in cultural anthropology joins School of Native Studies

By Judy Goldsand

Research interests have taken Patricia McCormack throughout Alberta, to the Yukon, and to the Hebrides and Orkney Islands. As the newest faculty member of the School of Native Studies, Dr McCormack brings to the University particular expertise in cultural anthropology. For the past decade, she has been the Curator of Ethnology at the Provincial Museum of Alberta where she managed a large collection of material culture of aboriginal peoples.

Dr McCormack says she is excited about developing new courses and being able to spend more time in research. She is looking forward to working with people at the School as well as people in native communities to decide what courses are needed the most. Courses will be developed in consultation with the School's elders, other elders and members of native communities. Dr McCormack is considering a course about aboriginal oral traditions which she believes would meet the needs of a wide range of students.

She is particularly interested in how people draw upon traditional cultures in what they do now, and in planning for the future of their children and grandchildren. "It can apply to all sorts or areas, from economics to religion, and I find that exciting."



Patricia McCormack

Dr McCormack has worked with aboriginal groups "for a very long time". Her research in recent years has been mainly with people in northern Alberta near Lake Athabasca. She directed a project to commemorate the Fort Chipewyan Bicentennial with a major in-house exhibit, travelling exhibit, exhibit catalogue, conference, and public programming.

Some of her earlier research was conducted in partnership with people on the Peigan Reserve in southern Alberta. "I'm particularly

interested in the persistence of horse traditions, as well as economics of the reserve and of ranching."

Besides several years as a sessional lecturer at the University of Alberta, Dr McCormack has taught at the University of Idaho, Grant MacEwan Community College at the Alexis Reserve, the Yukon Campus of UBC, and for Athabasca University at the Blue Quills Native Education Centre in St. Paul.

She has extensive experience as a writer and editor, including several publications in collaboration with R Geoffrey Ironside for the U of A's Circumpolar Research Institute.

James Dempsey, Director of the School of Native Studies, said he is very pleased to have a new colleague who is so "well recognized and well established, with such a highly respected publishing record."

The School of Native Studies, which opened in 1986, now has 200 students. Seventy-five percent are of aboriginal origin. The addition of Dr McCormack brings the full-time faculty to 3.2 and will enable the School to be more responsive to students' expressed needs for a wider variety of courses.

research; and, developing spinoff companies based on University research.

Dr Murray said the key for western Canada is to build local, knowledge-based companies with local resources and people. In British Columbia, the government wasted hundreds of millions of dollars trying to attract foreign companies to settle in the province. That approach was a total failure.

The IPC Director said local knowledge-based companies should complement the

Replenishment of GFC Standing Committees, 1994-95

The terms of office of a number of staff members serving on GFC standing committees, and on bodies with membership elected by GFC, will expire on 30 June 1994. The GFC Nominating Committee soon will be seeking replacements for these members and wishes to inform the University community that vacancies will occur on the following committees/bodies:

- Academic Appeals Committee (Regular and Alternate Members)
- Academic Development Committee
- Committee for the Improvement of Teaching and Learning
- Campus Law Review Committee
- Collections Committee
- Council on Student Life
- Department Chair Selection Committees - Panel of GFC-elected Members
- Environmental Research and Studies Centre
- Executive Committee (Nominees must be GFC members)
- Facilities Development Committee
- Library Committee
- Planning and Priorities Committee
- Senate (Nominees must be GFC members)
- Special Sessions Committee
- Undergraduate Awards and Scholarship Committee
- Undergraduate Teaching Awards Committee
- University Appeal Board (Alternate Members)
- Universities Coordinating Council

The GFC Nominating Committee invites nominations for these positions. All nominations, or expressions of interest, should be accompanied by a brief biographical sketch and be directed to: The Coordinator, GFC Nominating Committee, 2-5 University Hall (492-4733).

Partnering Continued from page 1

First, however, we need ideas, and that means the University must have the best scholars and students in the world. "We're in an international market and it's not good enough to have the best in Alberta."

The University of Alberta ranked fifth in the country in 1992-93, attracting \$81 million in research grants and contracts. About half of that amount came from the federal government. The Vice-President said that over the

next several years it is reasonable to suggest that the total could exceed \$100 million. "We think that's a modest projection."

She also said the University is committed to strengthening its Intellectual Property and Contracts Office under the direction of newly installed Director Jim Murray. That office, she said, will help industry solve its problems by linking University researchers with the industrial sector; speeding up the commercialization of technologies resulting from University

traditional economic strengths of the province. And if those larger companies can support the development of the knowledge-based economy, the whole process will be accelerated.

The University has excellent research and an entrepreneurial faculty, he said, but the U of A can't do it alone. It needs partners, including the two levels of government, the industrial sector and foundations.

Shane's future is our future

Shane seems to be perplexed; he absently plays with his earring; his mouth agape, he stares absently at a blank space on the classroom wall. Everyday he seems to slip a little further behind his classmates. He just can't seem to keep up. Unfortunately, his frustration and embarrassment are leading to emotional and behavioural problems. The happy, preschool smile and the curious eyes of the past have been replaced by a look of confusion, apprehension and anger.

Shane's mom, divorced two years ago, is unemployed; if her ex-husband doesn't send a support cheque this month, Shane's mom and her three children are going to have to go on welfare. What does the future hold for Shane, his mother and his siblings?

What is Shane's problem? Does he lack motivation? Does he have a learning disability? Is he mildly, mentally retarded? Does he have minimal, cerebral dysfunction? Does he have an attentional or an emotional disorder? What's wrong with Shane?

This is one of the most important periods in Shane's life. In many respects, his whole future depends on the ability of someone to

identify the nature of his problem, and provide effective and efficient remediation. Unless someone intervenes appropriately now, Shane's problems are soon going to become your problems and mine.

Shane is not unique. Every year there is a greater number of children who cannot cope with the increasingly complex demands of contemporary life. These children are likely to become social and economic liabilities.

Kindergarten may be expensive, but not as expensive as the court and social welfare system. For many years, strong and consistent research evidence has been available showing that early intervention with children like Shane can not only avoid or reduce the occurrence of learning problems, but also avoid the incidence of secondary social, emotional and behavioural problems. Introduce a little success into Shane's life and he may not become a young offender or a "welfare bum."

For Shane, it is too late to consider the relative merits of kindergarten. What is important at this instant is how his teacher responds in the next 15 seconds. Shane spends more than half of his waking hours, during

one of the most important periods of his life, with a teacher who may not know how to respond effectively to Shane's problems.

As a university student, the teacher achieved top marks in a variety of academic subjects, such as English literature, history and French. Well educated, but given only one year of teacher training following a bachelor's degree, the teacher may not be fully equipped to respond adequately to the increasing variety of problems teachers find in today's classrooms. It takes a considerable period of time to learn about child development, about minimal cerebral dysfunction, about learning disabilities, about behaviour management techniques, about methods of assessment, about specialized instructional strategies, about individualizing instruction, and all the other great variety of knowledge, skills and techniques a competent teacher has to master. Mastery requires repeated opportunities and guided practice, over extended time and varied circumstances, to apply, test, adjust and assimilate the various strategies required to work effectively with the increasing variety of children found in contemporary classrooms.

Unfortunately, the same naive decision-making that led to a reduction in the effectiveness of kindergartens is also involved in a proposal to reduce the effectiveness of teacher training programs. Recently, a document called *Quality First*, distributed by the President's office at the University of Alberta, proposed that the Faculty of Education reduce its teacher training program from four to two years, and in some cases, to one year. In addition, it has been suggested by some members of the University administration that course credit requirements in the teacher training program should be reduced from 60 to 42.

Given the rapidly multiplying numbers and varieties of problems in our schools and our society, it is obviously not cost-saving to cut back on the amount and quality of schooling and teacher training. Rather than reducing the quality, we should be improving it. If you care about Shane and the increasing number of children like him, get involved. Shane's future is your future. If you do get involved, make sure the absence of an eye blink is not symptomatic of deafness.

David Baine
Professor of Educational Psychology

In defence of Dentistry

Working through the power base of the committees they chair, Paul Davenport, President, and John McDonald, Vice-President (Academic), propose to close the Faculty of Dentistry. Both were major contributors to *Degrees of Freedom*, outlining the strategic plan for the U of A to the year 2005 and a vision which they say has guided their proposals. Although the cost of Dentistry is often mentioned, both have publicly stated it was not a consideration.

One might have expected a university (as opposed to a business) to obtain an independent analysis of the extent to which faculties and departments meet the standards described in *Degrees of Freedom*. Instead the President and Vice-Presidents prepared another document, called *Quality First*, which concludes that the Faculty of Dentistry is deficient and should be closed. Incidentally, they state on page i "... it is not a response to the 11 percent cut in our grant ..."

The only criticism of the Faculty of Dentistry in *Quality First* is that, it "... is not seen as a national leader in research studies and only in a few areas has the Faculty carried on forefront research in recent years". Due to the numbers involved the same could be said about most departments in most Canadian faculties.

It is very difficult to defend a faculty or department against the charge that it does not meet visions. Reasons for closure could be low academic standards, too little teaching, too few graduate students, too few papers

published, too few external funds, too few applicants and so on. Most (all?) departments fail on at least one of these levels and could therefore risk being closed.

The document continually repeats (e.g., pp 4,5,7,9) that the University must make every effort to attract the best undergraduate students. The marks awarded in courses given by other faculties, where potential dental students compete on equal terms with other students, show that Dentistry attracts some of the best in Alberta. Additionally, the Dental Hygiene students have among the highest marks of those entering the U of A directly from high school. The attempt to close Dentistry conflicts with a major objective expressed in *Degrees of Freedom*.

The Faculty of Dentistry (like Medicine?) has many clinicians whose major interest is training outstanding clinical dentists (seen as a fault in academic circles) and who have little talent for research. But despite the criticism in *Quality First*, research in Dentistry at the U of A compares favourably with that in other Canadian faculties of dentistry.

Such success may be compared by the amount of money yearly awarded in competitions by the Medical Research Council (MRC) of Canada. Averaged over the last five years, Dentistry at the U of A ranks fourth out of 10 dental faculties in Canada (the Faculty of Medicine might feel threatened because it is only fifth in its league).

The performance would have been much better but in 1991 the President forecast that

by the year 2001 the Faculty of Dentistry at the U of A would no longer exist; and the Vice-President (Academic) partially emasculated it. He cut 40 percent of the academic positions from the Department of Oral Biology, its major research wing, and halved its operating budget. The department cannot now even afford a full-time secretary. A cynic might be forgiven for thinking that in 1991 the administration set up Dentistry for closure by trying to cripple its research.

The MRC funds research into heart and kidney diseases, cancer, AIDS and so on. Inevitably, tooth-related research does not do so well in competition with these diseases. But when calculated as a proportion of the total operating grant money awarded by the MRC to a university, Dentistry at the U of A ranks second out of the 10 dental faculties in Canada.

Quality First applauds the four other small health science faculties: Nursing, Pharmacy, Rehabilitation Medicine and Physical Education. These "vibrant" faculties have "exceptional education programs, strong professional standards, outstanding students and growing research contributions". But the document avoids directly comparing their performances with that of Dentistry.

The research in different faculties may be compared by counting the number of articles published. But different journals have very different standards. One which publishes "Handwashing makes a difference" has different standards from one which publishes

"Neural changes in periapical lesions after systemic steroids". Papers published in (Science) faculties may be compared by a "scientific impact" factor calculated for every journal. *Nature*, the leader, has an impact factor of 23 but the British, Australian and Canadian dental journals rate only 0.8, 0.3 and zero, respectively. The Faculty of Dentistry, however, ranks second among the small health science faculties with respect to the yearly scientific impact of its research.

Among the small health science faculties, Dentistry apparently ranks last in the number of graduate students. Unlike the graduates of the other faculties, dentists have no financial incentive for postgraduate studies. They are all employed and those with research degrees do not earn more. The above unfavourable comparison is achieved by ignoring the fact that the University awards a doctorate (a postgraduate qualification) to graduating dentists. If these are added to the totals Dentistry ranks first.

"We are accountable for the priorities we set", trumpet the authors of *Degrees of Freedom*. "We will measure our performance and communicate the results freely inside and outside the university". My feelings about these pious phrases from an administration which acts as prosecution, judge and jury are not really printable.

JW Osborn
Professor of Oral Biology

White paper Continued from page 1

will guide the development of Alberta's adult learning system. Those proposals are going to be debated by 150 people attending two sessions in Edmonton, 2 and 3 May, and by another 150 people in Calgary, 5 and 6 May.

President Davenport said the major flaw in the white paper is the lack of a clear commitment to academic excellence on a national and international scale.

He outlined his major concerns with the white paper and invited GFC members to contribute to the preparation of the University's response. The white paper comes after universities have been told they must deal with a 20 percent reduction. "I continue to

think that 20 percent reduction is too much, too fast. It's going to have a serious effect on recruitment and accessibility to quality programs.

"I'm particularly concerned about the lack of a long-term commitment to increased funding to meet demand to the year 2005.

"Secondly, [there's] a lack of commitment to research. All through the document there are places where the wording cries out for a reference to research, and it's not there."

There is still an absence of criteria for the access fund, and the composition of the advisory committee seems to leave out people who have been intimately involved in pro-

gram development at the province's universities, he said.

On the government's proposals for involving banks in the student loan process, Acting Dean of Arts Margaret Van de Pitte said a real worry is that banks won't know that people trained in the humanities spend three or four years getting into management positions and being trained for the specific business context. Then, they rise more rapidly through the ranks, and earn more in the long-run. "If banks are to control what students are funded, they will probably do it in terms of the very obvious criteria."

The white paper suggests labour legislation might have to be changed to give institutions the flexibility to lay off faculty for reasons of fiscal restraint, program rationalization and reorganization. The President said the University is hopeful that all the section really means is that universities should have an effective redundancy clause. "To be perfectly clear, we would prefer to negotiate such a clause than to have it legislated."

The University's formal public response to the white paper will be released near the end of April.

University renews canola research agreement

Complete package worth \$1.3 million

By Folio staff

The University of Alberta this week renewed a major long-term partnership agreement with the Alberta and federal governments to develop new varieties of canola.

The value of the agreement, supplemented with other canola research funds, is approximately \$350,000 per year over four years. The renewal—to 1997—will help the University maintain a leading role in canola breeding and oilseeds technology.

Alberta produces almost one-third of the 10.1 million acres of canola grown in western Canada. In 1993, the farm gate value of the total crop was \$1.5 billion.

Under the agreement, the federal government seconded a canola breeder, Gary Stringam, to the University to carry out a breeding program and related genetic research. Dr Stringam will continue to supervise

graduate students and will teach a senior plant breeding course.

The University receives about \$250,000 per year in competitive research grant funding awarded to Dr Stringam.

The Tripartite Canola Research Agreement was signed in 1988 by the U of A, Agriculture and AgriFood Canada, and Alberta Agriculture, Food and Rural Development. The commercial development of new varieties is tendered to the seed trade and licensed on an exclusive rights basis. All royalties from new varieties released since 1988 are returned to the research program.

The agreement continues to support a canola breeding program started by U of A plant scientist Zenon Kondra in 1969. The program has released five new varieties: Altex, Andor, Alto, Eclipse and Eldorado.

Industry, U of A join forces for canola research

By Folio staff

The University of Alberta and the Alberta Wheat Pool have struck a three-year agreement whereby industry will work with the University in canola research.

The deal includes development of new varieties and capitalizes on the major marketing capabilities of the Prairie Pools.

The Alberta Wheat Pool will supply personnel, laboratory equipment and field work support for all facets of the joint program at the U of A, at Olds College, in Calgary, and at field testing sites throughout western Canada. It will also contribute genetic material that will be used in a joint breeding program.

The University and the Alberta Wheat Pool will jointly release any new varieties developed under the agreement. (The Alberta Wheat Pool and other Prairie Pools are already marketing important canola varieties for western farmers under the Ultrabred label.)

"This type of joint agreement with industry is an indicator of the new ways in which the University of Alberta intends to develop linkages with the private sector," said Keith Briggs, Chair of the Department of Plant Science. "It makes our research capabilities and development available for rapid commercial application."

The agreement, which complements the Tripartite Canola Research Agreement between the U of A and the federal and Alberta governments, is scheduled to be renewed in 1997.

Canola produces a nutritionally superior edible oil that is increasingly popular in Canada and the United States. The challenge is to increase profitability for farmers and the industry by developing new, high quality varieties that can resist disease and frost, increase yield, and grow under a greater variety of conditions.

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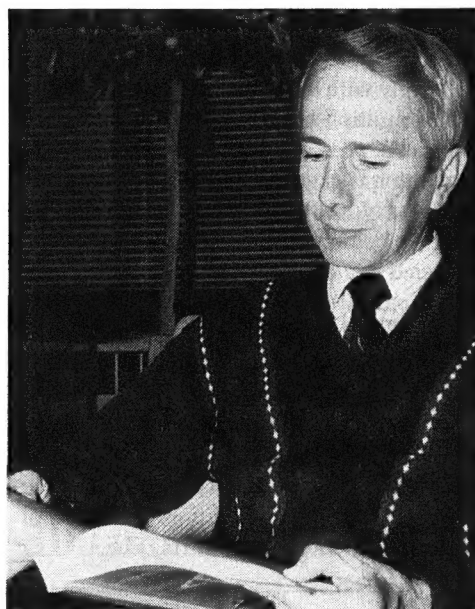
By Sandra Halme

One thing that particularly impressed one of Mike Gibbins' business students was the effort he put into recognizing individual students and their achievements.

"Dr Gibbins takes the time to add a few positive comments and encourage the students to participate, and believe me, this makes an enormous difference, especially since the students have such a high level of respect for Dr Gibbins."

"Dr Gibbins," comments another student, "congratulates individuals, by name, on a regular basis and for various achievements. He may congratulate the person with the highest mark as well as congratulate the newly elected executive of the Business Students' Association. By covering a wide variety of achievements, Dr Gibbins emphasizes the value of getting involved and developing a well-rounded lifestyle."

Still another student was impressed by how Dr Gibbins reduced students' stress level in a compulsory accounting course. "He went beyond the theory to give us examples of what the theory applies to in a real sense. Not only were these examples informative but



Mike Gibbins combines theoretical applications of accounting with real life practicality.

they were also interesting. This is a demonstration that Professor Gibbins does more than just lecture."

While students acclaim him as an "incredible professor", Dr Gibbins says he is just doing his job. "I really enjoy teaching and the

feedback I get from students fuels my enthusiasm. Students keep me young; seeing a fresh set of keen students each year renews me."

As is the case with many first-rate instructors, Dr Gibbins is also widely recognized for his research. The holder of the Winspear Foundation Distinguished Chair in Professional Accounting, Dr Gibbins joined the Faculty in 1984 as the first director of the Centre for the Advancement of Professional Accounting Education. He was previously on the faculty of the University of British Columbia and Queen's University, respectively. Dr Gibbins' ability to bring accounting down to the "real life" level undoubtedly comes from his firsthand experience gained at Deloitte & Touche and the Canadian Institute of Chartered Accountants.

It was during this time in the private sector that Dr Gibbins decided to study for his PhD and teach at the university level. While teaching a computer course in Scotland he discovered that he had an ability to explain somewhat complicated, intimidating material. "Back in 1970 when I taught the course, computers were huge and senior executives were uncomfortable with this new technology," he recalls. "It was fun seeing these people learn and I was hooked."

The two biggest changes Dr Gibbins has seen over the years are the technological ad-

vances in both teaching and learning and how respectful students have become. The latter saddens him slightly. "When I started teaching students were much more rambunctious, they challenged much of what you said." He acknowledges that the times have changed and although he sees students preoccupied with getting jobs, he understands it.

Dr Gibbins was appointed to the Winspear Chair in 1987 and the following year was awarded the FCA by the Alberta and British Columbia Institutes of Chartered Accountants. His research interests are in professional judgment and decision-making in accounting, auditing and related subjects, in accountability, and in corporate financial disclosure. His teaching prowess has brought him several honours, including the LS Rosen Outstanding Accounting Educator award by the CAAA and the Business Faculty's 1993 Labatt Undergraduate Teaching Award. In addition to his teaching and research interests, Dr Gibbins is a member of a number of associations and is editor of the journal, *Contemporary Accounting Research*.

Dr Gibbins received his BCom from UBC, his master's from York University and his PhD from Cornell.

Michael Brett makes teaching his highest priority during academic terms

Engineering professor earns 1994 Rutherford Award

By Michael Robb

Every good researcher knows what it feels like to have his or her paper accepted for publication. However, the exhilaration Electrical Engineering Professor Michael Brett feels after he delivers a dynamite lecture can, for him, be even more gratifying.

When the specialist in thin films was awarded a McCalla Professorship in 1989 to devote more time to his research endeavours, he found he missed the classroom immensely. "I did not enjoy my year as a McCalla Professor as much as thought I would."

He did, however, take an undergraduate course for credit as a special student. "Attending lectures, completing assignments and exams and working with classmates [many of whom he had taught] gave me an invaluable reminder and further insight into the difficulties faced by students in large classes," says Dr Brett, one of the recipients of this year's Rutherford Award for Excellence in Undergraduate Teaching.

Students appreciate his concern for those difficulties. Computer Engineering Club President Kevin Farley, who took a particularly important course on digital logic with Dr Brett, says, "He had a visible love for the material and teaching that I have never seen since. He was always enthusiastic and made himself very approachable."

According to Dr Brett, enthusiasm is important, but there's a lot more to good teaching than that. "It's also taking care of a lot of simple details—making sure you're organized, you start and finish on time and you use practical examples to illustrate your points."

Student Dalayce Baggett says, "He is well prepared and really cares about the students he is teaching. His notes are by far better than any I have ever had."

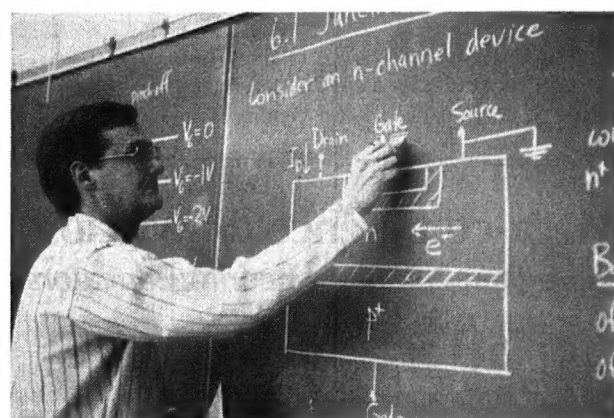
Dr Brett credits his department with a number of good teaching policies. When he arrived here several years ago he was eased into his teaching responsibilities. "That allows you to develop the courses properly." Older

faculty members, such as Fred Vermeulen, Bob James and Peter Smy, served as Dr Brett's mentors. And younger faculty members are physically placed together, so they can trade stories and tips related to their teaching responsibilities.

Dr Brett earned his BSc in 1979 at Queen's University and his MSc and PhD in 1981 and 1985, respectively, at the University of British Columbia. Here at the U of A, he was an NSERC Postdoctoral Fellow in 1985 and an NSERC University Research Fellow the following year. Last year, he earned the Faculty's Undergraduate Teaching Award.

Dr Brett is also one of the department's and Faculty's top researchers. "As a researcher he brings to bear to his research, not only his outstanding intellectual abilities, but also a vision and focus to his research program that is unique in the research community," says Alberta Microelectronic Centre President John Zupancic.

Electrical Engineering Professor Michael Brett at work at the blackboard.



"This commitment to both focused research and excellence in educating is a rare combination in one individual," Dr Zupancic says.

Sometimes, research can be slow, incremental and painstaking. You can come home after a day at the research bench, and not feel you've accomplished much, Dr Brett explains. But after delivering a good lecture, he says, "I feel I've done something significant for the day. You know you've delivered the goods."

Next week: Rutherford Award recipients Roger Morton, Bruce Wilkinson and Linda Woodbridge.

TALKS



ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

22 April, 3:30 pm

Brendan Cormack, Department of Microbiology and Immunology, Stanford University, "The TATA-Binding Protein: A Genetic Analysis of Transcription Initiation in Yeast." Presented by Genetics. M-149 Biological Sciences Centre.

26 April, 9 am

Dennis Voelker, associate faculty member, Department of Medicine, National Jewish Center for Immunology and Respiratory Medicine, Denver, "Structure-Function Analysis of Surfactant Protein A by Site-Directed Mutagenesis." 207 Heritage Medical Research Centre.

27 April, 4 pm

Dennis Voelker, "Phosphatidylserine Decarboxylase Biochemical and Genetic Key Lipid Transport." Presented by Anatomy and Cell Biology. 2-07 Heritage Medical Research Centre.

29 April, 3:30 pm

Lois Mulligan, Department of Paediatrics, Queen's University, "Ret Proto-oncogene in Development and Disease." Presented by Genetics. G-116 Biological Sciences Centre.

ANATOMY AND CELL BIOLOGY

3 May, 4 pm

Hanne Ostergaard, "Roll of Accessory Molecules in T-Cell Activation." 5-10 Medical Sciences Building.

FOREST SCIENCE

25 April, 3 pm

Lisa Tracy, co-director—Siberian Forests Protection Project, Pacific Environment and Resources Center, Sausalito, California, "Challenges and Opportunities in the Siberian Taiga: Environmental Problems of Siberian Forest Management and the Ecoforestry Alternative." Myer Horowitz Theatre.

MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASES

26 April, 4 pm

Robert P Rennie, "Invasive Infection by Candida: The Stealth Pathogen." 2F1.04 Mackenzie Health Sciences Centre.

28 April, noon

Marina K Kukhanova, VA Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow and Visiting Scien-

tist, Department of Pharmacology, Yale University School of Medicine, "Analogues of Nucleoside 5'-Triphosphates as Substrates and Inhibitors of Virus and Mammalian DNA Polymerases." 2J4.02 Mackenzie Health Sciences Centre.

PERINATAL RESEARCH CENTRE

26 April, noon

Peter Olley, "The Enigmatic Ductus." 2J4.02 Mackenzie Health Sciences Centre.
3 May, noon
Tamas Zakar, "Regulation of Prostaglandin Synthesis in Human Amnion." 2J4.02 Mackenzie Health Sciences Centre.

PHARMACOLOGY

22 April, 2 pm

Caroline Herron, Department of Psychiatry, Langley-Porter Psychiatric Institute, University of California, San Francisco, "Long-term Modulation of Synaptic Transmission in the Hippocampus: Effects of Serine/Threonine Phosphatase Inhibitors." 207 Heritage Medical Research Centre.

PHARMACY AND PHARMACEUTICAL SCIENCES

28 April, 3 pm

Robert A Blouin, Division of Pharmacology and Experimental Therapeutics, College of Pharmacy, University of Kentucky, "Cytochrome P450 Enzymes: Mechanism of Phenobarbital Induction." Sponsor: Alberta Heritage Foundation for Medical Research. 2031 Dentistry-Pharmacy Centre.

SOCIETY OF EDMONTON DEMOGRAPHERS


27 April, noon

Harvey Krahn, "The Changing Canadian Labour Market." Wild Rose or Wood Buffalo Room, Canada Place, 9700 Jasper Avenue.

STATISTICS AND APPLIED PROBABILITY

6 May, 10 am

Avi Singh, Statistics Canada and Carleton University, "Bayesian Versus Frequentist Measures of Uncertainty for Small Area Estimators." 657 CAB.

 This symbol denotes environmentally-related seminars and events. If you wish to have an environmentally-related event listed in this manner, please contact: The Environmental Research and Studies Centre, 492-6659.

Mega-conference draws closer

More than 2,000 engineering educators in town in late June

By Michael Robb

Mega! That's how people describe the American Society for Engineering Education Annual Conference and Exposition.

This year, the conference will take place in Edmonton (26 to 29 June) in conjunction with the Canadian Conference on Engineering Education. Both conferences are expected to pump well over a million dollars into the local and provincial economy.

It's expected the conference, which will be held at the Convention Centre, will draw about 2,000 Americans and 100 Canadians. One of the local organizers of the Canadian conference, Mechanical Engineering Professor Roger Toogood, says many people have expressed an interest in taking pre- or post-conference holidays in the province.

At last week's Faculty of Science forum on industry-university relations, Economic Development Edmonton President Rick LeLacheur said the biggest potential by far to draw conventions and conferences to the city is generated by the University.

Typically, the American conference is held at a university. The University of Alberta had originally proposed to host the conference in 1997, but Milwaukee could not pull it all together for the 1994 conference, explains Dr Toogood. So, Edmonton was asked to step in and hold the conference three years earlier than expected.

The ASEE conference is the only conference dedicated solely to engineering education. "Canadians who attend this conference

ACADEMIC STAFF

COMPUTING/NETWORK SUPPORT PERSON, FACULTY OF ARTS

The Faculty of Arts requires a computing support person on a term/contract basis. Responsibilities will include assisting the Faculty in several areas, including establishing LANs in several buildings and training staff, assessing present and future computing needs, evaluating hard/software, disaster recovery, and teaching and research applications. These activities include helping to develop strategies and manage the execution of the Faculty's network plans, and providing direction to departments and to staff.

The successful candidate will be a hands-on professional with strong organizational and communication skills who is able to work effectively with individuals at all levels and handle multiple projects concurrently. Applicants must possess an appropriate technical computing background, including extensive LAN and Novell experience.

The position is available immediately and is offered as a one-year contract with the possibility of renewal. Letters of application should include a statement which explains the applicant's interest in this position, and be accompanied by a résumé and the names of three referees. The deadline for receipt of applications is 6 May 1994. Please submit applications to: Dr DJ Hall, Office of the Dean of Arts, 6-33 Humanities Building, University of Alberta, Edmonton, Alberta T6G 2E5.

POSITIONS



The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

'V' WATCH VOLUNTEERS

Are you concerned with safety on campus? Are you interested in making our community a better, more caring one? Do you want to learn more about the diverse challenges of security services?

Campus Security Services is looking for students, faculty and staff to take part in its volunteer "V" Watch program. "V" Watch volunteers will be responsible for answering phones, providing general information to callers, taking complaints, radio dispatch and monitoring the alarm services.

A minimum of four hours per week volunteer time is required, as is an interest in working with the public.

Please contact Susan MacGregor, Campus Security Services, at 492-2943, for more information, or apply directly to Doug Langevin, Director of Campus Security Services, 212 Education Carpark, by 1 May.

All applicants will require a Criminal Records Check from the Edmonton Police Services or RCMP.

EVENTS



EXHIBITIONS

FAB GALLERY

Until 29 May

"Drawing Conclusions"—the BFA graduate show. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

McMULLEN GALLERY

Until 1 May

"Once Upon a Time"—a juried exhibition of work by members of the Edmonton branch of the Alberta Society of Artists. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 15 July

"Ancient Coins and Renaissance Books: Aspects of Roman History"—an exhibition honouring the 65th birthday of Duncan Fishwick, Department of Classics. Rare books from the Peel Library include many 16th and 17th century editions. Coins generously lent from the collections of T Cheesman, Nickle Art Museum, University of Calgary, Garth Wirth, and the U of A's Classics Department. Bruce Peel Special Collections Library, B-7 Rutherford South. Hours: 8:30 am to 4:30 pm Monday through Friday. Closed weekends.

MUSIC

DEPARTMENT OF MUSIC

25 April, 8 pm

Doctor of Music Recital—Joachim Segger, piano. Convocation Hall.



Please recycle this paper

ACCOMMODATIONS FOR RENT

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University enquiries welcome, 492-7044.

OTTEWELL, renovated two storey, four bedroom with delightful sunroom off living room. Formal dining room. Yard has fruit trees, large deck. Partially or furnished (negotiable). \$950. Western Relocation, 434-4629.

LESSARD, renovated townhouse. Students or professionals will enjoy proximity to amenities. Two bedrooms plus den. Rental incentives available. Western Relocation, 434-4629.

GRANT MACEWAN students or professionals call to view this delightful new townhouse condo. Jacuzzi, underground parking, appliances. Western Relocation Services, 434-4629.

LEMARCHAND, high style, executive condo. Two bedrooms plus den, furnished. August 1994 - August 1995. \$1,500/month. Western Relocation, 434-4629.

MAY - JULY, fully furnished three bedroom house 1 km south of University. New hardwood floors, totally new kitchen, garden. \$750/month. 492-5731, 438-7886.

RIVERBEND, executive four bedroom, two storey home. Appliances available. 1 May. Up to two-year lease negotiable. Khalida, 438-0621.

SASKATCHEWAN DRIVE, condominium, sublet, 1 June - 30 August. Fully furnished, one bedroom, two baths and office. 15 minutes to University. \$700. References required. 439-9087 evenings.

SEASONAL RENT - Cottage in Eagle Bay, B.C., on shore of Shuswap Lake. Sleeps five. Nonsmokers, no pets. \$600/week, \$50 extra with hot tub. 458-2225.

OXFORD - Share, modern, three bedroom, fully equipped semi with historian and two cats. Ideal for summer or sabbatical research. Nonsmoker. 250 pounds/month, 1/2 bills. Elaine, (865) 741313 or CHALUS@UK.AC.Oxford.VAX.

WALK TO UNIVERSITY, 1 May. Four bedroom house, four appliances, \$1,100/month. 487-1862.

VANCOUVER is one hour from this furnished, four bedroom, modern house on Bowen Island. Water view, beach access, five appliances, fireplace. Late August or September through June. Nonsmokers, no pets. \$950 monthly. 439-0233.

ADS

WINDSOR PARK, two bedroom bungalow, quiet, well-treed lot. \$900 plus utilities. John, 492-0353, Joan, 438-5022.

BLUE QUILL executive, five bedroom, double garage, six appliances. 1 May. \$1,100. 430-6767 after 6 pm.

EXCELSIOR LOFTS. Underground parking, 1,300', five appliances, air-conditioned, fireplace. \$1,100/month. 430-7168 after 6 pm.

DELUXE, fully furnished, one bedroom condo. 18th floor river view, pool, sauna, adjacent to campus. Available May. 492-3633, 433-4136.

BACHELOR SUITE, balcony overlooking river valley. Centrally located. Available 1 May - 5 September. Nonsmokers, furnished, \$360/month, power extra. 428-6246.

WONDERFUL, OREGON COAST hideaway for two. Charming lakefront home available 1 September 1994 - 1 May/1 June 1995. \$650 (U.S.) 435-4388.

TO SHARE, townhouse, walk to University, big bedroom, \$325. 431-0685, 424-5060.

SABBATICAL HOUSE - August - May/June/July 1995 (flexible). Three bedrooms, \$750, pets okay. 15-20 minutes bus to campus. 492-3003, 465-3740, 453-8673.

SABBATICAL, August 1994 - July 1995. New, furnished, three bedroom house. Nonsmokers, no pets. \$900/month plus utilities. 492-0372, 481-8186.

HAWAII, WAIKIKI. Renovated, furnished apartment. Dishwasher, microwave, air-conditioner, washer, dryer, cable, water. Close beach, amenities. 1 May - 1 January. Short term, \$55 U.S./day. Long, \$900 U.S./month. 465-5240, 5-9 pm.

WINDSOR PARK, four bedrooms, three bathrooms, fully furnished, finished basement. 1/2 block to campus, July and August (or longer). Rent negotiable. 433-7165 evenings.

DOWNTOWN - Three bedroom townhouse, 1,800', three baths, jacuzzi, tub, sauna. Drapco built-in vacuum, balcony, deck. \$1,200. One year old. Double attached garage. Protec Property Management. 448-1961.

MALMO, immaculate bungalow. Furnished, developed basement, two-garage. \$900. Raymond Cheng, 498-2930.

WEST END, four bedroom house. Fireplace, appliances. 1 May, deposit, references. \$775. 456-0676.

THREE BEDROOM family home backs onto park. Double garage, appliances. \$775/month. Furnishing negotiable. Beaumont, 20-minute drive to University. 929-9700.

HOUSE TO SUBLET - \$325/month, May to November (negotiable). No pets, nonsmokers. 95 Street 92 Avenue. 468-1492.

LARGE, COZY HOUSE to share. Very suitable for visiting professor. Lots of privacy and very clean. Ten-minute walk to University. \$600/month plus share of food and utilities. Available 1 June. 439-6802.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 595-3200, Lois Dutton, Re/Max ports west, Victoria, B.C.

VANCOUVER ISLAND - Parksville, Qualicum, NanOOSE and areas. Experienced realtor: prompt replies to enquiries. John Richardson, Sutton Group Whitecap Realty, Box 596, Parksville, B.C. V9P 2G6. (604) 248-8801 phone, (604) 248-8084 fax.

OTTEWELL - Ten minutes/University. Executive, large, four level split, three bedrooms up, one down. Family room, study, sunken living room, fireplace, vaulted ceilings, window coverings, upgraded kitchen/bath, Jennair stove, frost-free fridge, dishwasher, garburator, air-conditioned. Large yard, double garage/opener. \$170,000. 466-4342.

OLD STRATHCONA, two storey, 1,900' unique three bedroom, and three in finished basement. Nicely renovated. Ron, Metro City, 439-3300.

OLD RIVERBEND, great location. Four bedroom, two storey, family home. Family room, fireplace, 2 1/2 baths, deck, attached double garage, mature landscaping. \$199,900. 4724 139 Street. By owner. 436-4313.

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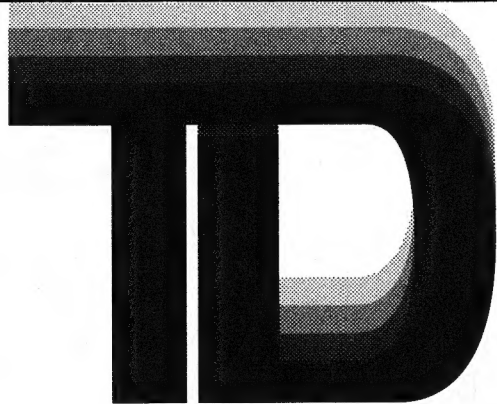
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SPACIOUS, ONE BEDROOM, 1,120' highrise condominium. 16th floor, overlooking University. Excellent building, all amenities, large, secure reserve fund. Two blocks to LRT. Excellent financing available. Asking \$117,500. Further details, viewing, please call 433-0559.

LANDSDOWNE - Price reduced. Seller motivated! Attractive, three plus one bedrooms, main floor family room. South backyard. Convenient to University and hospitals. Asking \$174,900. Open to offers. Pat vonBorstel, Spencer Realty, 435-0808.

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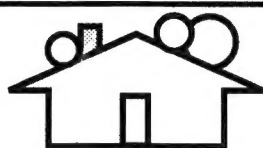
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